

FUEL FILL SYSTEM WITH FUEL VAPOR RECIRCULATION

ABSTRACT

A fuel fill system includes a funnel having an inlet port configured to receive a nozzle from an external fuel source, a fuel filler tube coupled to an outlet port of the funnel, and a  
115 vapor recirculation tube coupled to the funnel. Fuel vapor entering the funnel from the vapor recirculation tube is directed toward the outlet port at a first angle less than  $90^\circ$  from a longitudinal axis of the funnel. The fuel vapor entering the funnel may also be directed at a second angle less than  $90^\circ$  from a line tangent to an inner surface of the funnel at a point where fuel vapor enters the funnel. The second angle being in a plane perpendicular to the  
120 longitudinal axis of the funnel.

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